

City of Newport Beach - Building Department

BUILDING CODE POLICY

Effective Date	Subject	Policy No.
November 16, 2005	R Value Application to Patio Covers	UBC 1630.4.4

Patio covers that are designed with a flag pole action to provide lateral resistance shall be exempt of the requirements of Section 1630.4.4 provided they comply with following:

1. Appendix Section 31, Division III of the CBC.
2. The column deflection shall be limited to $.005H$. (H = the column height from the point of fixity or zero deflection.)
3. The design of the column, its connection to the diaphragm, its connection to the foundation, and the foundation shall be based on the loads factored by the ratio of 5.5/2.2.
4. The column axial stress ratio shall be based on a $K = 2.1$ and shall not exceed the stress ratio of $f_a/F_a = 0.15$. (K is the effective length factor, f_a = actual axial allowable stress, F_a = allowable axial stress.)

Jay Elbettar, Building Director